INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/06643

A. CLASSIFICATION OF SUBJECT MATTER IPC: G01V 1/28(2006.01),1/34(2006.01),1/36(2006.01)				
USPC: 367/25,36,37,38,43,50,51,52,68,72 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 367/25,36,37,38,43,50,51,52,68,72				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOCUMENTS CONSIDERED TO BE RELEVANT	,			
Category * Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A US 6,480,118 B1 (RAO) 12 November 2002 (12.11.2002), all	1-20			
A US 6,473,696 B1 (ONYIA, et al) 29 October 2002 (29.10.2002), all	1-20			
A US 4,802,147 A (MOECKEL) 31 January 1989 (21.01.1989), all	1-20			
A US 4,802,146 A (MOECKEL) 31 January 1989 (21.01.1989), all	1-20			
A US 6,026,913 A (MANDAL, et al) 22 February 2000 (22.02.2000), all	1-20			
A US 2,596,463 (BARTHELMES) 13 May 1952 (12.05.1952), all	1-20			
A US 5,083,297 A (OSTRANDER) A 21 January 1992 (21.01.1992), all	1-20			
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "T" later document published after the ir date and not in conflict with the app	nternational filing date or priority			
"A" document defining the general state of the art which is not considered to be the principle or theory underlying the of particular relevance	le invention			
"B" earlier application or patent published on or after the international filing considered novel or cannot be consi-	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
establish the publication date of another citation or other special reason (as considered to involve an inventive st specified) combined with one or more other su	considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document referring to an oral disclosure, use, exhibition or other means				
"P" document published prior to the international filing date but later than thepriority date claimed	ıt family			
Date of the actual completion of the international search Date of mailing of the international search	rch report			
11 April 2006 (11.04.2006). 16 MAY 2006				
Name and mailing address of the ISA/US Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents Scott Hughes	Scott Hughes WS			
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Telephone No. 571-272-6983	i			

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/06643

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 4,232,378 A (ADAMS, et al) 4 November 1980 (04.11.1980), all	1-20
A	US 4,713,775 A (SCOTT, et al) 15 December 1987 (15.12.1987), all	1-20
		·
		}

INTERNATIONAL SEARCH REPORT	International application No.			
	PCT/US05/06643			
	<u> </u>			
·				
·				
·				
·				
Continuation of B. FIELDS SEARCHED Item 3:				
GeoRef: refraction, drilling, hazard, karsts, semblance, filtering				
EAST: refactor, refraction, seismic, drilling, filter, (sembalnce or coherence), stati	CS			

Form PCT/ISA/210 (extra sheet) (April 2005)